

We claim:

1. (previously presented) A fluororesin composition, characterized by comprising a fluororesin in which terminal groups are stabilized, and carbon nanotubes.

2. (previously presented) The fluororesin composition as claimed in claim 1, characterized in that the fluororesin in which terminal groups are stabilized is selected from a perfluoroalkoxyalkane polymer, or a perfluoroethylene propylene copolymer.

3. (currently amended) A fluororesin composition, as claimed in claim 1, characterized in that a fluororesin and carbon nanotubes surface treated with a fluorine-based surfactant are blended.

4. (previously presented) The fluororesin composition as claimed in claim 3, characterized in that the fluorine-based surfactant is at least one kind selected from the group consisting of fluoroalkylsulfonic acid, fluoroalkylcarboxylic acid, and their salts.

5. (currently amended) The fluororesin composition as claimed in ~~any one of claims 3 or 4~~ claim 3, characterized in that the fluororesin is one that terminal groups are stabilized.

6. (currently amended) The fluororesin composition as claimed in ~~any one of claims 3 to 5~~ claim 3, characterized in that the fluororesin in which terminal groups are stabilized is selected from a perfluoroalkoxyalkane polymer, or a perfluoroethylene propylene copolymer.

7. (new) A fluororesin composition, characterized in that a fluororesin is one that terminal groups are stabilized, and the fluororesin and carbon nanotubes previously surface-treated with one kind selected from the group consisting of fluoroalkylsulfonic acid, fluoroalkylcarboxylic acid and their salts are blended.

8. (new) The fluororesin composition as claimed in claim 7, characterized in that the fluororesin in which the terminal groups are stabilized is selected from a perfluoroalkoxyalkane polymer, or a perfluoroethylene propylene copolymer.

9. (new) A blend composition comprising :

- a. a fluoro-resin synthesized with a stabilizing terminated chemical group;
- b. said fluoro-resin in contact with a fluorine based surfactant forming a fluoro-resin component of said blend composition;
- c. a carbon nanotube in contact with a fluorine based surfactant forming a carbon nanotube component of said blend composition;
- d. said fluoro-resin component mixed with said carbon nanotube comprising said blend composition; and
- e. said blend composition formed in the melt.

10. (new) The blend composition as in claim 9, wherein said fluoro-resin comprising said fluoro-resin component of said blend composition is selected from the group consisting of a perfluoroalkoxyalkane, a perfluoroethylene-propylene copolymer and any mixed ratio thereof.

11. (new) The blend composition as in claim 9, wherein said fluoro-resin terminated with said stabilizing chemical group is selected from the group consisting of a tetrafluoroethylene-hexafluoropropylene copolymer (FEP), a tetrafluoroethylene-fluoroalkylvinyl ether copolymer (PFA), a tetrafluoroethylene-ethylene copolymer (ETFE), a tetrafluoroethylene-hexafluoropropylene-vinylidene fluoride terpolymer (THV), a polytetrafluoroethylene (PTFE), a polyvinylidene fluoride (PVdF), and a polychlorotrifluoroethylene (PCTFE).

12. (new) The blend composition as in claim 9, wherein said fluorine based surfactant in contact with said fluoro-resin and in contact with said carbon nanotube is selected from the group selected from a fluoroalkylcarboxylic acid, a fluoroalkylsulfonic acid, a salt of said fluorine based surfactant and a mixture thereof.

13. (new) A blend composition comprising :

- a. a first fluoro-resin synthesized with a stabilizing terminated chemical group;

- b. a second fluoro-resin synthesized without a stabilizing terminated chemical group;
- c. said first fluoro-resins in contact with a fluorine based surfactant forming a fluoro-resin component A of said blend composition;
- d. said second fluoro-resins in contact with a fluorine based surfactant forming a fluoro-resin component B of said blend composition;
- e. said fluoro-resin component A in contact with said fluoro-resin component B forming a fluoro-resin component C, said fluoro-resin component C comprising at least 0.33 weight fraction fluoro-resin component A;
- f. a carbon nanotube in contact with a fluorine based surfactant forming a carbon nanotube component of said blend composition;
- g. said fluoro-resin component A in contact with said carbon nanotube component comprising said blend composition wherein said blend composition is formed from the melt.